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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,748	07/30/2004	Christopher D. Giles	49335.1200	4747
20322 7590 05/16/2007 SNELL & WILMER L.L.P. (Main) 400 EAST VAN BUREN ONE ARIZONA CENTER PHOENIX, AZ 85004-2202			EXAMINER NGUYEN, CHAU T	
			ART UNIT 2176	PAPER NUMBER
			MAIL DATE 05/16/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/710,748	Applicant(s) GILES, CHRISTOPHER D.	
	Examiner Chau Nguyen	Art Unit 2176	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 March 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/02/2007 has been entered. Claims 1-13 are presented for examination.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-5, 7 and 10-13 are rejected under 35 U.S.C. 103(a) as being unpatentable by Champagne et al. (Champagne), US Patent Application Publication No. US 2005/0086199 in view of Sherman et al. (Sherman), US Patent No. 6,636,897, and further in view of Boothby et al. (Boothby), US Patent Application Publication No. US 2002/0049764.

4. As to independent claims 1 and 13, Champagne discloses a method for managing electronic forms, said method including:

receiving, at a remote device, a plurality of host forms having form fields from a host (page 1, paragraphs [0009], [0011]: transmitting data stored in a plurality of fields of plurality of records of a first database (a host) to a second database (remote device));

compiling a subset of said plurality of host forms (page 1, paragraph [0014], and page 4, paragraph [0045]: the remote database translates (compiles) the records or that only those records fitting a particular criteria)

receiving form data into said form fields of said subset of said plurality of host forms to create a plurality of remote form (page 3, paragraphs [0035]-[0036]: field of categories includes name, last name, first name, middle initial, address, etc. to create a record structure; and page 4, paragraph [0050]: host data transfer program automatically correlates the fields of the records of the remote database to the fields of the records of the host database);

storing said form data in a remote database (page 1, paragraph [0011]: data stored in a plurality of fields of a plurality of records of the first database is then transmitted from one of the two databases to the other one of the two database);

communicating with said host to transmit said form data to said host, thereby causing said host to map said form data to database record fields within a host database and, causing said host to synchronize said host database with said form database (page 3, paragraph [0032]: the remote computer sends the host computer the record structure data packet; page 3, paragraph [0032], and page 4, paragraphs [0043]-[0047]: mapping the records of remote database to the records of host database; and

page 5, paragraph [0060]: synchronizes the records of host database with the received records of the remote database);

Champagne discloses the remote database translates the records of the host database prior to transmitting the records to the host database or that only those records fitting a particular criteria such as a database search criteria (page 4, paragraph [0045]). However, Champagne does not explicitly disclose compiled a subset of said plurality of host forms based upon a service type selection.

Sherman discloses synchronizing a selected subset of an e-mail folder hierarchy between server and client computing systems by defining the subset of the email folder hierarchy as the group of folders associated with a particular branch of the mail folder hierarchy.

Please
provide a
citation of
where
Sherman
makes this
disclosure.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Sherman and Champagne to include compiled a subset of said plurality of host forms based upon a service type selection. By doing this way, not "all" information would be synchronized, and this could reduce connection times and memory allocation requirements.

Champagne and Sherman disclose discloses synchronizes the records of host database with the received records of the remote database (Champagne, page 5, paragraph [0060]). However, Champagne and Sherman do not explicitly disclose communicating with said host to transmit said form data to said host, thereby causing said host to calculate hash values to determine when a data change exists and causing

said host to synchronize said host database with said form data when said data change exists.

Boothby discloses the information sent to the second computer (remote computer) can include information identifying the deleted records or added records (data change), and the information can also include a code based, which may be a hash number (page 1, paragraph [0013] and page 3, paragraph [0036]). Boothby also discloses that computing a hash number to determine if the computed hash number for the record does not match the hash value of the record in the history file record, the remote segment assumes that the record has been change since the previous synchronization, and therefore, the remote segment sends the host computer the field values including the unique ID and a "changed" flag to be synchronized (page 6, paragraphs [0067]-[0070]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Boothby with Champagne and Sherman to include communicating with said host to transmit said form data to said host, thereby causing said host to calculate hash values to determine when a data change exists and causing said host to synchronize said host database with said form data when said data change exists. Boothby et al. suggest that use hash numbers as a unique identification code and thus it enables the remote and host to identify the unchanged record by its hash code.

5. As to dependent claim 2, Champagne-Sherman-Boothby disclose synchronizing said plurality of host forms with said remote database (Champagne, page 3, paragraph [0034]).

6. As to dependent claim 3, Champagne-Sherman-Boothby disclose synchronizing a host application with a remote application (Champagne, page 5, paragraph [0060]).

7. As to dependent claim 4, Champagne-Sherman-Boothby disclose wherein causing said host to map includes causing said host to map using predetermined mapping rules (Champagne, page 2, paragraph [0017]).

8. As to dependent claim 5, Champagne-Sherman-Boothby discloses synchronizes the records of host database with the received records of the remote database (Champagne, page 5, paragraph [0060]). However, Champagne and Sherman do not disclose wherein said step of causing said host to calculate hash values includes determining a first hash value based on said form database; determining a second hash value based on a record of said host database corresponding to said form data; and determining whether there is a difference between said first hash value and said second hash value.

Boothby discloses the information sent to the second computer (remote computer) can include information identifying the deleted records or added records (data change), and the information can also include a code based, which may be a hash

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number (page 1, paragraph [0013] and page 3, paragraph [0036]): Boothby also discloses that computing a hash number to determine if the computed hash number for the record does not match the hash value of the record in the history file record, the remote segment assumes that the record has been change since the previous synchronization, and therefore, the remote segment sends the host computer the field values including the unique ID and a "changed" flag to be synchronized (page 6, paragraphs [0067]-[0070]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Boothby with Champagne and Sherman to include determining a first hash value based on said form database; determining a second hash value based on a record of said host database corresponding to said form data; and determining whether there is a difference between said first hash value and said second hash value. Boothby et al. suggest that use hash numbers as a unique identification code and thus it enables the remote and host to identify the unchanged record by its hash code.

9. As to dependent claim 7, Champagne-Sherman-Boothby disclose wherein said compiling further includes arranging said subset of said plurality of host forms according a predefined order (Champagne, pages 4-5, paragraph [0052]).

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10. As to dependent claim 10, Champagne-Sherman-Boothby disclose replicating authentication data from host to said remote device (Sherman, col. 7, line 34 – col. 8, line 13).

11. As to dependent claim 11, Champagne-Sherman-Boothby disclose replicating customer data from said host to said remote device (Boothby, page 7, paragraph [0075]: synchronizer transforms and uses the information sent by the remote segment to identify a record in the history file that is a copy of the field values of the remote database record).

12. As to dependent claim 12, Champagne-Sherman-Boothby disclose processing said data to verify at least one of spelling and format (Champagne, pages 2-3, paragraphs [0031], [0038]).

13. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Champagne, Sherman and Boothby as applied to claims 1-5, 7 and 10-13 above, and further in view of Chen et al., US Patent Application Publication No. US 2002/0049751.

14. As to dependent claim 6, Champagne-Sherman-Boothby, however, do not explicitly disclose verifying credentials of a user of said remote device.

Chen et al. disclose client application can be configured for the user to access server application via network 14, but the server requires user to enter certain personal

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information such as sign-in name and password (credentials of a user) (page 3, paragraphs [0041]-[0043]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Chen with Champagne-Sherman-Boothby to include verifying credentials of a user of said remote device in order to prevent unauthorized users accessing the remote device.

15. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Champagne-Sherman-Boothby as applied to claims 1-5, 7 and 10-13 above, and further in view of Hunkins et al. (Hunkins), US Patent Application Publication No. US 2002/0049751.

16. As to dependent claim 8, Champagne-Sherman-Boothby, however do not explicitly disclose whether said service type selection includes at least one of retirement account, investment account, line of credit, banking, and insurance.

Hunkins disclose multiple forms can be any kind of forms such as insurance form (col. 1, lines 12-38).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Hunkins with Champagne-Sherman-Boothby to include different kinds of forms for different purposes.

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17. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Champagne-Sherman-Boothby as applied to claims 1-5, 7 and 10-13 above, and further in view of Feague et al. (Feague), US Patent Application Publication No. US 2005/0013104.

18. As to dependent claim 9, Champagne-Sherman-Boothby, however do not explicitly disclose converting free-hand text entry of said form data into text.

Feague discloses converting a user's handwritten input into text (page 12, paragraph [0145]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Feague with Champagne-Sherman-Boothby to include converting a user's handwritten input into text for the purpose of providing a friendly user environment for user's input.

Response to Arguments

In the remarks, Applicant(s) argued that

A) Champagne, Sherman, Chen, Hunkins or Feague does not disclose "causing said host to calculate ^{hash} ~~has~~ values to determine when a data change exists, and causing said ^{DK} host to synchronize said host database with said form data when said data change exists."

In reply to argument A, the examiner has not used Champagne, Sherman, Chen, Hunkins or Feague reference to reject the limitations "causing said host to calculate has

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values to determine when a data change exists, and causing said host to synchronize said host database with said form data when said data change exists.” Therefore, applicant(s) cannot argue these limitations against Champagne, Sherman, Chen, Hunkins or Feague reference.

B) Boothby does not disclose or suggest “causing said host to calculate has values to determine when a data change exists, and causing said host to synchronize said host database with said form data when said data change exists.”

In reply to argument A, Boothby discloses the information sent to the second computer (remote computer) can include information identifying the deleted records or added records (data change), and the information can also include a code based, which may be a hash number (page 1, paragraph [0013] and page 3, paragraph [0036]). Boothby also discloses that computing a hash number to determine if the computed hash number for the record does not match the hash value of the record in the history file record, the remote segment assumes that the record has been change since the previous synchronization, and therefore, the remote segment sends the host computer the field values including the unique ID and a “changed” flag to be synchronized (page 6, paragraphs [0067]-[0070]).

19. Applicant's arguments filed 03/02/2007 have been fully considered but they are not persuasive. Please see response to argument above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau Nguyen whose telephone number is (571) 272-4092. The Examiner can normally be reached on Monday-Friday from 8:30 am to 5:30 pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Heather Herndon, can be reached at (571) 272-4136.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. On July 15, 2005, the Central Facsimile (FAX) Number will change from 703-872-9306 to 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chau Nguyen
Patent Examiner
Art Unit 2176



Doug Mutton
Primary Examiner
Technology Center 2100